

GenCore version 4.5  
Copyright (c) 1993 - 2000 Compugen Ltd.

OM protein - protein search, using sw model

Run on: March 1, 2001, 15:47:01 ; Search time 210.42 Seconds  
(without alignments)  
10.238 Million cell updates/sec

Title: US-09-331-631a-1\_COPY\_186\_248

Perfect score: 355  
Sequence: 1 KRDPQOREYEDCRRRCEQOE.....MMNPORGSGRYEEGEEDS 63

Scoring table:  
BLOSUM62  
Gapox 10.0 , Gapext 0.5

Searched: 268485 seqs, 34193795 residues

Total number of hits satisfying chosen parameters: 268485

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 08  
Maximum Match 1008  
Listing first 45 summaries

Database :

1: A\_Geneseq\_36:\*  
2: /SIDSL/gcgdata/geneseq/geneseq/AA1980.DAT:\*  
3: /SIDSL/gcgdata/geneseq/geneseq/AA1981.DAT:\*  
4: /SIDSL/gcgdata/geneseq/geneseq/AA1982.DAT:\*  
5: /SIDSL/gcgdata/geneseq/geneseq/AA1983.DAT:\*  
6: /SIDSL/gcgdata/geneseq/geneseq/AA1984.DAT:\*  
7: /SIDSL/gcgdata/geneseq/geneseq/AA1985.DAT:\*  
8: /SIDSL/gcgdata/geneseq/geneseq/AA1986.DAT:\*  
9: /SIDSL/gcgdata/geneseq/geneseq/AA1987.DAT:\*  
10: /SIDSL/gcgdata/geneseq/geneseq/AA1988.DAT:\*  
11: /SIDSL/gcgdata/geneseq/geneseq/AA1989.DAT:\*  
12: /SIDSL/gcgdata/geneseq/geneseq/AA1990.DAT:\*  
13: /SIDSL/gcgdata/geneseq/geneseq/AA1991.DAT:\*  
14: /SIDSL/gcgdata/geneseq/geneseq/AA1992.DAT:\*  
15: /SIDSL/gcgdata/geneseq/geneseq/AA1993.DAT:\*  
16: /SIDSL/gcgdata/geneseq/geneseq/AA1994.DAT:\*  
17: /SIDSL/gcgdata/geneseq/geneseq/AA1995.DAT:\*  
18: /SIDSL/gcgdata/geneseq/geneseq/AA1996.DAT:\*  
19: /SIDSL/gcgdata/geneseq/geneseq/AA1997.DAT:\*  
20: /SIDSL/gcgdata/geneseq/geneseq/AA1998.DAT:\*  
21: /SIDSL/gcgdata/geneseq/geneseq/AA1999.DAT:\*  
22: /SIDSL/gcgdata/geneseq/geneseq/AA2000.DAT:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	355	100.0	666	19 W62828	Macadamia integrifolia
2	332	93.5	666	19 W62829	Macadamia integrifolia
3	320	90.1	625	19 W62830	Macadamia integrifolia
4	124	34.9	590	19 W62832	Gossypium hirsutum
5	120	33.8	525	19 W62831	Theobroma cacao an
6	120	33.8	566	13 R20181	Sequence encoded b
7	112	31.5	637	19 W62837	Hordium vulgare an
8	79	22.3	919	10 P93109	Human androgen rec
9	79	22.3	919	18 W14783	Androgen receptor
10	79	22.3	919	21 Y78914	Human androgen rec
11	79	22.3	1326	20 Y55933	Human ZC3 protein
12	77.5	21.8	919	10 P90996	Human androgen rec

#### ALIGNMENTS

13 77 21.7 154 20 Y33504  
14 77 21.7 918 12 R12223  
15 77 21.7 918 12 Y33491  
16 74 20.8 1898 20 Y30795  
17 73.5 20.7 593 19 W62835  
18 72.5 20.4 1162 21 Y58500  
19 71.5 20.1 669 19 W37483  
20 71 20.0 2074 21 Y54319  
21 70 19.7 28 19 W62841  
22 69 19.4 365 18 W34971  
23 69 19.4 449 19 W47176  
24 69 19.4 449 21 Y98804  
25 69 19.4 449 21 Y98805  
26 69 19.4 449 21 Y80196  
27 69 19.4 449 21 Y80197  
28 68.5 19.3 1382 18 W31867  
29 68 19.2 1299 21 Y58633  
30 67 18.9 423 17 R91305  
31 66 18.6 112 20 Y04866  
32 66 18.6 126 20 Y04861  
33 66 18.6 436 17 W03662  
34 66 18.6 436 20 Y22342  
35 66 18.6 614 16 R82630  
36 65.5 18.5 2023 21 Y54320  
37 65 18.3 71 20 Y09181  
38 65 18.3 371 20 W73369  
39 64.5 18.2 210 19 W62560  
40 64.5 18.2 594 17 W00591  
41 64.5 18.2 595 17 W00595  
42 64.5 18.2 611 20 Y29039  
43 64 18.0 156 20 Y76583  
44 64 18.0 362 18 W34972  
45 64 18.0 409 20 W90342

RESULT 1  
W62828  
ID W62828 standard; Protein: 666 AA.  
AC W62828;  
DT 27-OCT-1998 (first entry)  
DE Macadamia integrifolia antimicrobial protein.  
KW antimicrobial protein; Infestation; control.  
OS Macadamia integrifolia.  
XX  
FH Key Location/Qualifiers  
FT Peptide 1..28  
FT Protein /note= "signal peptide"  
FT /note= "mature protein"  
XX  
PN W09827805-A1.  
PD 02-JUL-1998.  
XX  
PF 22-DEC-1997; 97WO-AU00874.  
XX  
PR 20-DEC-1996; 96AU-0004275.  
XX  
PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.  
XX Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;  
PI WPI: 1998-377279/32.  
DR N-PSDB: V42310.  
XX

PT Novel anti-microbial protein from e.g. Macadamia integrifolia -  
 PT useful for controlling microbial infestations of plants or mammals  
 XX  
 PS Claim 1; Page 34-36; 96pp; English.  
 CC The sequence is that of an antimicrobial protein which can  
 CC be used to control microbial infestations in plants and mammalian  
 CC animals.  
 CC  
 XX  
 SQ Sequence 666 AA;

Query Match 100.0%; Score 355; DB 19; Length 666;  
 Best Local Similarity 100.0%; Pred. No. 1.8e-32;  
 Matches 63; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 KRDPQOREYEDCRRRCOEPRROQHCOLRCREQOROHGRGDMNPORGSGRYEGEE 60  
 |||  
 Db 186 krtpqreyedcrrrcceqgqprqgqrcrcreqqrqggrgdmnpqrgsgryeege 245  
 OY 61 EQS 63  
 |||  
 Db 246 eqs 248

## RESULT 2

W62829  
 ID W62829 standard; Protein; 666 AA.

XX W62829;  
 XX  
 DT 27-OCT-1998 (first entry)

DE Macadamia integrifolia antimicrobial protein.  
 XX  
 KW antimicrobial protein; infestation; control.  
 XX  
 OS Macadamia integrifolia.

XX Key Location/Qualifiers  
 FH Peptide 1..28  
 FT /note= "signal peptide"  
 FT 29..666  
 FT Protein /note= "mature protein"

XX W09827805-A1.

XX 02-JUL-1998.

XX 22-DEC-1997; 97WO-AU00874.

XX 20-DEC-1996; 96AU-0004275.

XX (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.

XX Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;

XX WPI: 1998-377279/32.

XX N-PSDB: V42311.

PT Novel anti-microbial protein from e.g. Macadamia integrifolia -  
 PT useful for controlling microbial infestations of plants or mammals  
 XX  
 PS Claim 1; Page 39-41; 96pp; English.

CC The sequence is that of an antimicrobial protein which can  
 CC be used to control microbial infestations in plants and mammalian  
 CC animals.  
 CC  
 XX  
 SQ Sequence 666 AA;

Query Match 93.5%; Score 332; DB 19; Length 666;

Best Local Similarity 92.1%; Pred. No. 7e-30;  
 Matches 58; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

OY 1 KRDPQOREYEDCRRRCOEPRROQHCOLRCREQOROHGRGDMNPORGSGRYEGEE 60  
 |||  
 Db 186 krtpqreyedcrrrcceqgqprqgqrcrcreqqrqggrgdmnpqrgsgryeege 245  
 OY 61 EQS 63  
 |||  
 Db 246 eqs 248

## RESULT 3

W62830  
 ID W62830 standard; Protein; 625 AA.

XX W62830;

XX 27-OCT-1998 (first entry)

DE Macadamia integrifolia antimicrobial protein.

XX antimicrobial protein; infestation; control.

XX Macadamia integrifolia.

XX Key Location/Qualifiers

FH Peptide 1..28

FT /note= "signal peptide"

FT Protein /note= "mature protein"

XX W09827805-A1.

XX 02-JUL-1998.

XX 22-DEC-1997; 97WO-AU00874.

XX 20-DEC-1996; 96AU-0004275.

XX (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.

XX Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;

XX WPI: 1998-377279/32.

XX N-PSDB: V42316.

PT Novel anti-microbial protein from e.g. Macadamia integrifolia -  
 PT useful for controlling microbial infestations of plants or mammals  
 XX  
 PS Claim 1; Page 43-45; 96pp; English.

CC The sequence is that of an antimicrobial protein which can  
 CC be used to control microbial infestations in plants and mammalian  
 CC animals.  
 CC  
 XX  
 SQ Sequence 625 AA;

Query Match 90.1%; Score 320; DB 19; Length 625;  
 Best Local Similarity 88.9%; Pred. No. 1.5e-28;  
 Matches 56; Conservative 4; Mismatches 3; Indels 0; Gaps 0;

OY 1 KRDPQOREYEDCRRRCOEPRROQHCOLRCREQOROHGRGDMNPORGSGRYEGEE 60  
 |||  
 Db 145 krtpqreyedcrrrcceqgqprqgqrcrcreqqrqggrgdmnpqrgsgryeege 204  
 OY 61 EQS 63  
 |||  
 Db 205 eqs 207

## RESULT 4

```

W62832
ID W62832 standard; Protein; 590 AA.
XX
XX W62832;
AC
XX
XX DT 27-OCT-1998 (first entry)
XX
XX DE Gossypium hirsutum antimicrobial protein.
XX
XX KM antimicrobial protein; infestation; control.
XX
XX OS Gossypium hirsutum.
XX
XX PN W09827805-A1.
XX
XX PD 02-JUL-1998.
XX
XX PF 22-DEC-1997; 97MO-AU00874.
XX
XX PR 20-DEC-1996; 96AU-0004275.
XX
XX PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
XX
XX PI Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;
XX
XX DR WPI; 1998-377279/32.
XX
XX PT Novel anti-microbial protein from e.g. Macadamia integrifolia -
XX
XX PT useful for controlling microbial infestations of plants or mammals
XX
XX PS Claim 1; Page 49-51; 96pp; English.
XX
XX CC The sequence is that of an antimicrobial protein which can
XX
XX CC be used to control microbial infestations in plants and mammalian
XX
XX CC animals.
XX
XX SQ Sequence 590 AA;

Query Match 34.9%; Score 124; DB 19; Length 590;
Best Local Similarity 37.0%; Pred. No. 1.9e-06;
Matches 34; Conservative 9; Mismatches 15; Indels 34; Gaps 5;

OY 3 DPQOREYEDCRRRCEDQEPHQHQCQLRC-----REQD-----RQHGRCGDMN--- 45
   |||:| |||:| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 82 dpqqr-yeegqgeqrgeqrgeqrqclkrtegeqgqqrqfgeqgqhchqgeqrpek 140
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 46 -----NPRGSGSGRTEGEEPOS 63
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 141 kgqcvrecrekygenpwrg--ereeeeeeet 170

RESULT 5
W62831
ID W62831 standard; Protein; 525 AA.
XX
XX W62831;
AC
XX
XX DT 27-OCT-1998 (first entry)
XX
XX DE Theobroma cacao antimicrobial protein.
XX
XX KM antimicrobial protein; infestation; control.
XX
XX OS Theobroma cacao.
XX
XX PN W09827805-A1.
XX
XX PD 02-JUL-1998.
XX
XX PF 22-DEC-1997; 97MO-AU00874.
XX
XX PR 20-DEC-1996; 96AU-0004275.

```

```

XX
XX PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
XX
XX PI Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;
XX
XX DR WPI; 1998-377279/32.
XX
XX PT Novel anti-microbial protein from e.g. Macadamia integrifolia -
XX
XX PT useful for controlling microbial infestations of plants or mammals
XX
XX PS Claim 1; Page 47-49; 96pp; English.
XX
XX CC The sequence is that of an antimicrobial protein which can
XX
XX CC be used to control microbial infestations in plants and mammalian
XX
XX CC animals.
XX
XX SQ Sequence 525 AA;

Query Match 33.8%; Score 120; DB 19; Length 525;
Best Local Similarity 40.8%; Pred. No. 4.9e-06;
Matches 29; Conservative 13; Mismatches 17; Indels 12; Gaps 5;

OY 1 KDPDQREYEDCRRRCBQQ--EPHQHQCQLRC---REQDROHGRGDMNPRGSGSR 54
   |||:| |||:| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 35 erdpqr-qyeqqrceateeregeqgeqrceqrereykeqrqgee--elqrryqgcqgr 91
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
OY 55 YEE---GEEEO 62
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 92 cgeqgqgqreq 102

RESULT 6
R20181
ID R20181 standard; Protein; 566 AA.
XX
XX R20181;
AC
XX
XX DT 16-APR-1992 (first entry)
XX
XX DE Sequence encoded by 67 kD T. cacao protein cDNA.
XX
XX KM Cocoa; flavour; vicillin; seed storage protein.
XX
XX OS Theobroma cacao.
XX
XX PN W09119801-A.
XX
XX PD 26-DEC-1991.
XX
XX PF 07-JUN-1991; 91MO-GB00914.
XX
XX PR 11-JUN-1990; 90GB-0013016.
XX
XX (MRSC ) MARS UK LTD.
XX
XX PI Spencer ME, Hodge R, Deakin EA, Ashton S;
XX
XX DR WPI; 1992-024418/03.
XX
XX DR N-PSDB; Q20377.
XX
XX PT Recombinant cocoa proteins - are responsible for flavour in cocoa
XX
XX PT beans and produced in large quantities using yeast and bacterial
XX
XX PT expression vectors
XX
XX PS Claim 4; Fig 2; 59pp; English.
XX
XX CC The inventors claim a 67 kD and 31 kD T. cacao protein, and
XX
XX CC fragments, and encoding DNAs. The 47 kD and 31 kD proteins are
XX
XX CC derived from the 67 kD precursor. T. cacao protein cDNA was
XX
XX CC detected in a cDNA library prepared from immature cocoa beans RNA
XX
XX CC using a probe based on the AA sequence of a CNBr peptide common to
XX
XX CC the 47 kD and 31 kD polypeptides. Homology searches revealed close

```



XX 20-SEP-1995: 95US-0004018.  
PR  
XX  
PA (WORC-) WORCESTER FOUND BIOMEDICAL RES.  
XX  
PI Zamecnik PA;  
XX  
XX  
DR WPI; 1997-202879/18.  
DR  
XX N-PSDB; T63407.  
XX  
PT Oligonucleotide(s) antisense to human androgen receptor and acidic  
PT FGF genes - used to inhibit gene expression, for the treatment of  
PT benign prostatic hyperplasia  
XX  
XX  
PS Disclosure; Page 22-28; 51pp; English.  
XX  
XX Human androgen receptor (M14783) binds testosterone and, acting  
CC at the transcriptional level, regulates the growth of normal  
CC prostatic cells. Antisense oligonucleotides (see also T63200,  
CC T63404-05) based on androgen receptor cDNA clone (see also  
CC T63407) can be used to prevent androgen receptor gene expression,  
CC thereby inhibiting the growth or survival of prostatic cells for  
CC the treatment of benign prostatic hyperplasia and prostate cancer.  
XX  
XX

Query Match	22.38	Score 79	DB 18	Length 919
Best Local Similarity	32.88	Pred. No. 0.37		
Matches 19	Conservative 15	Mismatches 22	Indels 2	Gaps 1

Qy 5 QOREYEDCRRRCRCEQEPROQHOCQLKRCREQQRHGGRGDMNPNQRCGSGRYEEGEEQ 62  
111: : :: :11 :11 : 1:11:1 :1 :11:1 :1  
Db 58 qqqqqq--qqqqqqqqqqqqqetstprqqqqqqqgedgspsahrrpptylavldeeq 113

RESULT	10
Y78914	
ID	Y78914 standard; protein; 919 AA.

AC Y78914;

DT 23-MAY-2000 (first entry)

Human androgen receptor (AR) amino acid sequence.

KW Androgen receptor; AR; androgen-independent activation; inhibitor;

KW acne; breast cancer; Kennedy disease; prostate cancer.

OS Homo sapiens.

PN WO200001813-A2.

PD 13-JAN-2000.

PF 30-JUN-1999; 99WO-CA00604.

PR 30-JUN-1998; 98US-0091871.

PA (UYBR-) UNIV BRITISH COLUMBIA.

PI Sadar MD, Bruchofsky N, Gout PW, Snoek R, Mawji NR;

DR WPI; 2000-182113/16.

PT Novel non-androgen ligand binding peptides for inhibiting

PT screening compounds and for treatment of androgen-mediated diseases

XX XX

XX

This sequence represents the human androgen receptor (AR) amino acid sequence. The invention relates to a fragment of the AR corresponding to amino acids 234-391 (see Y78913). The fragment mediates androgen-independent activation of the AR. The androgen receptor acts as a transcription factor, regulating the expression of certain androgen-responsive genes. Interaction of the AR with the protein kinase A signal transduction pathway involves interaction with the androgen independent region. The AR fragment and peptides derived from it can be used as agents for inhibiting androgen independent activation of the androgen receptor, as activating domains, and as a tool for screening for compounds which affect androgen-independent activation of the AR. The peptides, when used in combination with androgen deprivation, effectively limit androgen mediated disease progression. These diseases include cancer, benign prostatic hyperplasia, hirsutism, androgenic alopecia, acne, breast cancer, Kennedy disease, and especially prostate cancer. The peptides and nucleic acids encoding them, are especially used for the treatment of androgen-mediated diseases, especially prostate tumours in patients deprived of androgen.

Query Match	22.38	Score 79	DB 21	Length 919
Best Local Similarity	32.88	Pred. No.	0.37	
Matches 19; Conservative	15; Mismatches	22; Indels	2; Gaps	1;

```
QY 5 QREYEDCRRRCEDQEPROQHQCQLRCREQQRHGRRGMDMNPQRGSGRYEEGEED 62
   ||: : : ||: || | : ||: | | | : ||: |
Db 58 qqqqq--qqqqqqqqqqqetstsrqqqqqqedgsspahrrptl9y\viideeq 113
```

RESULT	11
Y55933	
ID	Y55933 standard; Protein; 1326 AA

AC Y55933;

DT 18-FEB-2000 (first entry)

Human ZC3 protein.

KW Antirheumatic; antiarthritic; antiinflammatory; antiallergic; osteopathic;

KW neuroprotective; cardiant; cerebroprotective; cytostatic; antidiabetic;

KW ZC1, ZC2, ZC3, ZC4, KHS2, SULU1, SULU3, GEK2, PAK4; PAK5; antagonist;

KW inflammatory bowel disease; Crohn's disease; osteoarthritis; psoriasis;

KW myocardial infarction; cardiovascular disease; stroke; renal failure;

KW amyotrophic lateral sclerosis; Leigh syndrome; cancer; cardiomyopathy;

KW mesangial disorder; growth regulation; wound healing; T cell activation;

XX

XX

XX

XX

XX

XX

XX XX

XX XX

DR N-PSDB; Z40485.



CC a. proapoptotic dependence domain mediated pathological conditions e.g.  
CC Huntington's disease, Alzheimer's disease, Kennedy's disease,  
CC Spino cerebellar ataxias, dentatorubropallidoluysian atrophy,  
CC Machado-Joseph disease, stroke or head trauma. They can also be used for  
CC reducing the severity of a pathological condition mediated by upregulated  
CC cell proliferation or cell survival e.g. neoplastic, malignant,  
CC auto immune or fibrotic conditions. This sequence represents a human  
CC unliganded androgen receptor described in the method of the invention.  
XX  
SO Sequence 154 AA;

Query Match 21.7%; Score 77; DB 20; Length 154;  
Best Local Similarity 32.8%; Pred. No. 0.1;  
Matches 19; Conservative 12; Mismatches 21; Indels 6; Gaps 1;

OY 5 QOREYEDCRRCRCEQOEPRQOHOCILRCRCEQORQHGRGGMNPNORGSGRYERGEDEQ 62  
Db 58 qqqqqq-----qqqqqqqqqqqetpsrqqqqqgqdgspqahrrpptylv1deeqq 109

## RESULT 14

ID R12223  
R12223 standard: Protein; 918 AA.

AC R12223;

DT 20-AUG-1991 (first entry)

XX Human androgen receptor.

KW hAR; DNA-binding protein; steroid hormone.

XX Homo sapiens.

XX Key Location/Qualifiers

FT Domain 556..626

FT /label= "DNA-binding domain

FT /note= "cysteine-rich"

XX W09107423-A.

XX 30-MAY-1991.

XX 19-OCT-1990; 90WO-US06015.

XX 17-NOV-1989; 89US-0438775.

XX (ARCH-) ARCH DEV CORP.

XX Liao S, Chang C;

XX WPI: 1991-178048/24.

XX N-PSDB; Q12001.

XX Androgen receptor and TR2 DNA binding proteins - DNA sequences

XX and antibodies for detection and quantification methods

XX Claim 25; Fig 3; 79pp; English.

XX This sequence was deduced from a cDNA clone isolated by screening

XX commercially available human testis and prostate lambda g11 cDNA

XX libraries. The sequence is very similar to that of rat AR and in

XX the DNA-binding domain it is identical to that of RAR DNA-binding

XX domain. Homology comparisons with other known steroid receptors

XX indicate that hAR is more closely related to glucocorticoid,

XX mineralo-corticoid and progesterone receptors than to v-erb-A or to

XX receptors for oestrogen, vitamin D and thyroid hormones.

XX Sequence 918 AA;

Query Match 21.7%; Score 77; DB 12; Length 918;

Best Local Similarity 32.8%; Pred. No. 0.62;  
Matches 19; Conservative 12; Mismatches 21; Indels 6; Gaps 1;

OY 5 QOREYEDCRRCRCEQOEPRQOHOCILRCRCEQORQHGRGGMNPNORGSGRYERGEDEQ 62  
Db 58 qqqqqq-----qqqqqqqqqqqetpsrqqqqqgqdgspqahrrpptylv1deeqq 109

## RESULT 15

ID Y33491  
Y33491 standard: Protein; 918 AA.

AC Y33491;

DT 19-JAN-2000 (first entry)

XX Human androgen receptor protein.

KW Proapoptotic; dependence domain; p75NTR; androgen receptor; DCC;

KW huntingtin polypeptide; Machado-Joseph disease; SCA1; SCA2; SCA6;

KW atrophin-1; cell death; apoptosis; Huntington's disease; head trauma;

KW Alzheimer's disease; Kennedy's disease; spino cerebellar ataxia; stroke;

KW dentatorubropallidoluysian atrophy; cell proliferation; cell survival;

KW neoplastic; malignant; autoimmune; fibrotic.

XX Homo sapiens.

XX W09945944-A1.

XX 16-SEP-1999.

XX 11-MAR-1999; 99WO-US05250.

XX 12-MAR-1998; 98US-0041886.

XX (BURN-) BURNHAM INST.

XX Bredezen DE, Rabizadeh S;

XX WPI: 1999-561617/47.

XX N-PSDB; Z23424.

XX New proapoptotic dependence peptides, used to develop products for

XX treating, e.g. Alzheimer's disease -

XX Disclosure; Page 90-93; 199pp; English.

XX This invention describes novel pure proapoptotic dependence peptides

XX which comprise a sequence of an active dependence domain selected from

XX dependence polypeptides consisting of p75NTR, androgen receptor, DCC,

XX huntingtin polypeptide, Machado-Joseph disease gene product, SCA1, SCA2,

XX SCA6 and atrophin-1 polypeptide. The proapoptotic peptides are capable

XX of inducing cell death and can be used to develop products to mediate or

XX inhibit apoptosis. The methods can be used for reducing the severity of

XX a proapoptotic dependence domain mediated pathological conditions e.g.

XX Huntington's disease, Alzheimer's disease, Kennedy's disease,

XX Spino cerebellar ataxias, dentatorubropallidoluysian atrophy,

XX Machado-Joseph disease, stroke or head trauma. They can also be used for

XX reducing the severity of a pathological condition mediated by upregulated

XX cell proliferation or cell survival e.g. neoplastic, malignant,

XX auto immune or fibrotic conditions. This sequence represents a human

XX androgen receptor described in the method of the invention.

XX Sequence 918 AA;

Query Match 21.7%; Score 77; DB 20; Length 918;

Best Local Similarity 32.8%; Pred. No. 0.62;

Matches 19; Conservative 12; Mismatches 21; Indels 6; Gaps 1;

OY 5 QOREYEDCRRCRCEQOEPRQOHOCILRCRCEQORQHGRGGMNPNORGSGRYERGEDEQ 62

Db 58 qqqqqq-----qqqqqqqqqqqetpsrqqqqqgqdgspqahrrpptylv1deeqq 109

Fri Mar 2 09:28:41 2001

us-09-331-631a-1\_copy\_186\_248.rag

Page 8

Search completed: March 1, 2001, 15:47:02  
Job time: 227 sec

---